
Eric Ren

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View my resume and past projects online: <https://resume.ezreal.ca>

Profile:

Application & Database Analyst with 10+ years of experience designing, developing, and supporting enterprise web applications and data-driven systems in higher-education and corporate environments. Strong background in C#, Python, Java, SQL (SQL Server & MySQL) and ETL-style data integration between enterprise systems. Skilled at optimizing queries and stored procedures, building reporting datasets, and troubleshooting complex production issues. Known as a collaborative, detail-oriented team member who can work independently, communicate clearly with stakeholders, and improve systems for performance, scalability, and data quality.

Skill Set:

Languages & Databases: C#, Python, Java, PHP, JavaScript, HTML, CSS; SQL (T-SQL, MySQL, MS SQL Server, basic Oracle/PostgreSQL)

Application & Data: Application design & development (web, services, internal tools); Database design, normalization, indexing & performance tuning; Stored procedures, views, functions, triggers; ETL/data integration (scripts, REST APIs, scheduled jobs); Reporting & BI datasets, Power BI basics

Frameworks & Tools: .NET / ASP.NET, Bootstrap, jQuery, REST APIs; Drupal 7/8, WordPress, CiviCRM; Git, SVN, Jira, Bugzilla, Freshservice

Platforms & Infrastructure: Windows & Windows Server, Linux (CentOS, Ubuntu, Red Hat); MS SQL Server, MySQL; Active Directory, IIS/Apache, SSL, cPanel, Hyper-V, Docker (basic)

Other: Microsoft 365, SharePoint, Power BI; Photoshop, Illustrator, InDesign, AutoCAD, SketchUp

Professional Experience:

University of Alberta

2021 - Now

Application Developer (IST - Enterprise Applications)

- Design, develop, and maintain internal web applications for the Faculty of Engineering (HR/Payroll requests, TA assignment, accreditation/SEAS, graduate processes, etc.).
- Use C#, PHP, JavaScript, SQL (MySQL & SQL Server) to implement application features, reports, and integrations with enterprise systems (e.g. PeopleSoft, BOT/automation tools, UODA feeds).
- Build and optimize SQL queries, views, and stored procedures to support reporting, dashboards, and high-volume transactional workflows.
- Develop and maintain ETL/import scripts to synchronize data across systems, improving data quality and reducing manual work.
- Work closely with analysts and business stakeholders to gather requirements and translate them into scalable, maintainable technical solutions.
- Troubleshoot application and database issues in production; analyze logs and query plans, implement fixes, and improve performance and reliability.
- Document application architecture, data models, and operational procedures to support long-term maintenance and onboarding of new team members.

Computer Programmer(Faculty of Engineering)

- Designed and developed C# / .NET applications backed by MS SQL Server to support engineering research projects (data collection, analysis, and reporting).
- Created and maintained database schemas, tables, views, and stored procedures to model experimental data and research workflows.
- Implemented data import/export and basic ETL processes to integrate lab instruments, spreadsheets, and other data sources into centralized databases.
- Optimized SQL queries and indexing strategies to improve performance for large datasets and complex calculations.
- Collaborated with faculty members and graduate students to understand research requirements and translate them into reliable, user-friendly tools.

- Assisted with server and workstation setup for research systems, including backups, updates, and troubleshooting of application/database issues.

MacEwan University

2017 - 2020

Systems Analyst

- Led and supported large public and internal web projects for a post-secondary institution, working closely with business analysts, communications, and IT.
- Re-architected public/internal sites to responsive design using JS/jQuery, Handlebars.js, Bootstrap, HTML5, CSS, and Cascade CMS.
- Built custom applications and data migration/ETL solutions to move content and metadata into Oracle WebCenter and other repositories using PHP, MySQL, REST APIs, and JSON.
- Co-developed a web-based faculty annual report system using PHP, Symfony, Twig, XML, REST APIs, and JS/Ajax, backed by relational databases designed for reporting.
- Implemented automation and reporting for customized e-forms using SharePoint, MS Flow, REST APIs, and Power BI, improving reporting speed and data accessibility.
- Optimized database queries and application logic to improve page load times and system reliability.
- Ensured data accuracy and integrity during migrations and system integrations, and documented solutions for support teams.

Lung Association of Saskatchewan

2013 - 2017

Web developer

- Designed and maintained 15+ data-centric web applications and services (160,000+ contacts, 20,000+ users, 7,000+ monthly visits) using Drupal 7/8, CiviCRM, PHP, MySQL, and shell scripts.
- Built and supported online payment and transaction systems (e-commerce, donations, raffles), including database tables, stored procedures, and reporting queries.
- Created ETL scripts to clean, transform, and load data between public-facing systems, CRM, and reporting databases, helping improve data quality and consistency.
- Managed databases (schema changes, indexing, backup/recovery) and wrote queries for finance, fundraising, and program teams.
- Provided documentation and training for internal users and external partners; acted as a bridge between business staff and technical systems.

Meridian Development Corp.

2011 - 2013

IT Administrator

- Developed internal business applications and reporting tools using PHP, HTML, CSS, and MySQL.
- Supported Windows servers, Exchange, SharePoint, and Active Directory; implemented backup and disaster recovery processes.
- Created a web application to track project costs and progress, designing the underlying database and reports for management.

First Degree Developments Ltd.

2009 - 2011

IT Administrator

- Designed and developed business applications and corporate websites using HTML, PHP, and MySQL.
- Managed servers, backups, and networking, ensuring systems availability and data integrity.

Education:

Bachelor of Science Four-Year: Computer Science

2005 - 2009

University of Saskatchewan, College Arts and Science - Department of Computer Science